United States Environmental Protection Agency
Region 5
POLLUTION REPORT

Date: Tuesday, April 13, 2004
From: Kenneth Rhame, OSC

To:
Ray Worley, U.S. EPA
W. Messenger, U.S. EPA
Afif Marouf, U.S. EPA
Tracy Johnson, U.S. EPA
Duty Officer, USCG
Mick Hans, U.S. EPA
Bill Bolen, U.S. EPA
Chris Austin, MDEQ
Jason El-Zein, U.S. EPA
Stuart Hill, U.S. EPA
John Maritote, U.S. EPA
G. Narsete, U.S. EPA
N Seif, MDEQ
Beverly Kush, U.S. EPA
Mark Johnson, ATSDR

Subject: Initial
Speis Field
Spies Athletic Field, Menominee, MI

POLREP No.:	1	**Site #:**	B58G
Reporting Period:		**D.O. #:**	0033
Start Date:	4/1/2004	**Response Authority:**	CERCLA
Mob Date:		**Response Type:**	TC
Completion Date:		**NPL Status:**	Non NPL
CERCLIS ID #:	MIN000509078	**Incident Category:**	Removal Action
RCRIS ID #:		**Contract #**	

Site Description
The Spies Field site is located on the south side of Spies Athletic Field in Menominee, Menominee County, Michigan, and covers an approximate area of 2.72 acres. The Spies Field site is bounded on the north by Spies Athletic Field, on the east by Linder and Sorenson Body Shop on 10th Street, on the south by a vacant parcel of land, and on the west by Krygoski Construction. An air-cooled engines business is located southwest of the site and the vacant parcel. Access to the site is via 10th Street and the vacant parcel of land. The geographic coordinates of the site are latitude 45E 04' 46" north and longitude 87E 39' 29" west. The site is an open lot consisting of wooded and marshland areas. The site has been vacant for approximately 20 years, but was formerly occupied by a wood products facility. The site is located in a predominately commercial area.

In June of 2003, a citizen reported to the city as well as to the National Response Center (NRC # 648695) that there were abandoned drums and hazardous substances on the property. This citizen also collected contaminated material samples. The City of Menominee had their contractor, STS, sample the material in the drums. These results

indicated elevated levels of lead, up to 150,000 parts per million, as well as chromium up to 55,000 parts per million. Approximately eight (8), fifty-five (55) gallon drums were then over-packed and properly disposed of as hazardous waste. This removal was funded by the city. Due to the conditions of the site, a densely vegetated wetland, drums were overlooked and were later discovered.

On September 9, 2003 US EPA received a letter from the City of Menominee requesting assistance in conducting an assessment / removal action at this site.

On October 14, 2003 US EPA conducted a site assessment, collected surface soil, wetland sediment, and wetland water samples for the analysis of metals and VOC□s. The surface soil sampled contained elevated levels of lead, up to 47,400 (ppm) and chromium up to 9,820 ppm. A toxic characteristic leaching procedure (TCLP) analyses for metals indicated over 5 milligrams per liter chromium, thus exceeding allowable RCRA hazardous waste characteristics. This hazardous area was estimated to be approximately forty feet by forty feet in dimensions and 4 feet in depth.

Exposure to lead can damage the nervous system, kidneys, and reproductive system. Exposure to high levels can result in neurological effects, brittle hair, and deformed nails Exposure to chromium may cause skin allergy, itching and skin rash.

Current Activities

Current activities are to abate the threats due to the hazardous area identified in the site assessment and to locate any other contaminated areas.

Current ERRS activities include clearing and constructing access roads, grubbing vegetation, dewatering wetlands, exploratory investigative trenches.

Current START activities include conducting perimeter air monitoring using personal data real-time aerosol monitor (PDR) and air sampling using personal pumps and filter cartridges. START is also collecting soil / wetland and water samples from various locations on site.
Wetland water analysis met MDEQ□s discharge criteria to Lake Michigan via storm drainage ditch.

April 1, 2004 U.S. EPA START collected and submitted baseline perimeter air samples and wetland water samples for lead and chromium analysis. The wetland water samples.

April 5, 2004 U.S. EPA, START and ERRS mobilized to the site. Wetland water sample analysis was received. Wetland water samples were non-detect for lead and chromium except for one sample which indicated a chromium concentration of 10.2 parts per billion.

April 6th and 7th 2004 U.S. EPA consulted with MDEQ regarding the wetland water samples. U.S. EPA and MDEQ agreed that the wetland water could be discharged to Lake Michigan via a storm drainage ditch. ERRS began dewatering the wetland area, constructing access road and clearing and grubbing vegetation using a trackhoe and bobcat. START

conducted perimeter air monitoring using PDR and air sampling using low-flow pumps and cartridges. On both the 6th and 7th PDR readings were just above background readings. Background was between 0.24 and 0.28 milligrams per meter cubed and site readings were between 0.24 and 0.33 milligrams per meter cubed. The site-specific lead action level for PDR is 5.27 milligrams per meter cubed. On April 7th U.S. EPA requested and recovered two contaminated material samples that were still being stored at the private citizen□s office.

April 8, 2004 ERRS excavated four exploratory trenches. U.S. EPA and START identified additional soil piles and wetland sediment locations that required sampling. START collected soil, wetland samples and exploratory trench samples. ERRS backfilled exploratory trenches. Vegetation clearing and grubbing activities as well as dewatering activities continued. ERRS collected personal air sample for the operator working on exploratory trenches. No perimeter air samples or PDR monitoring was conducted due to rain.

April 9, 2004 US EPA and START began analyzing soil samples for lead using real-time analyzer-Niton 300-XRF. Air, soil and wetland sediment samples were submitted to a commercial laboratory for analysis. ERRS continued vegetation clearing and grubbing and dewatering activities. To this date there has beer: no intrusive soil disturbing activities conducted in the identified contaminated area.

Planned Removal Actions
Dispose of contaminated soils containing lead and chromium.
Dispose of any other contaminated soil based on analytical results.
Dispose of decontamination water.

Next Steps
Excavate and stockpile contaminated soil.
Select disposal facility and transport hazardous waste for treatment and disposal.
Collect cleanup confirmation samples to meet site-specific lead action level (direct contact) of 400 ppm, chromium action level of 2,500 ppm for hexavalent and 790,000 ppm for trivalent.
Collect and sample decontamination water and dispose of appropriately.

Key Issues
None

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$220,000.00	$29,000.00	$191,000.00	86.82%

RST/START	$35,000.00	$6,300.00	$28,700.00	82.00%
Intramural Costs				
USEPA - Direct (Region, HQ)	$7,200.00	$2,700.00	$4,500.00	62.50%
USEPA - InDirect	$15,600.00	$5,850.00	$9,750.00	62.50%
Total Site Costs	$277,800.00	$43,850.00	$233,950.00	84.22%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

www.epaosc.org/SpiesField